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EARLY SCIENTIFIC BOOKS.

1. **AGRICOLA**, Georgius. *De re metallica libri XII*, quibus officia, instrumenta, machinae ac omnia denisque ad metallicam spectantia describuntur. *De animantibus subterraneis liber*. 7 leaves, 708 pp., 46 leaves. **With about 250 full-page and other large woodcuts** illustrating machinery and processes in mining and metallurgy. Folio. Original vellum. Basel, 1657. Swiss Frs. 175. —

An unusually fine and fresh copy.

This beautiful work on mining and metallurgy, profusely illustrated by remarkable woodcuts, probably designed by Rud. Manuel Deutsch, is of great importance as the first comprehensive one on this subject. The numerous woodcuts give the first exhaustive pictorial account of the machinery and processes then in vogue. The author, whose real name was Bauer, was the first to give a full-account of the chemistry of metals.

2. **L'ADMIRAL**, Jan. *Naauwkeurige Waarneemingen om trent de Veranderingen van veele Insecten of gekorvene Diertjes*. 2 leaves, 34 pp., 1 leaf. **With coloured vignette on the title and 33 splendid hand-coloured full-page plates** showing lepidoptera with larves and foodplants. Large folio. Half calf, back gilt. Amsterdam, J. Sluyter, 1774. Frs. 100. —

Brunet III, 738. Adorned by beautiful plates in marvellous colouring. —
Fine Copy.

3. **ALCHEMIAE SCRIPTORES**. Edited by G. Gratarolus. *Verae alchemiae artisque metallicaee, citra aenigmata, doctrina, certusque modus, scriptis tum veteribus nunc primum editis, comprehensus*. 8 leaves, 244 pp.; 299 pp. Folio. 18th century calf. Basel, 1561. Frs. 250. —

Brunet II, 1712.

VERY RARE AND LITTLE KNOWN COLLECTION OF ALCHEMISTICAL WORKS. NO OTHER WORK FROM THE 16TH CENTURY IS KNOWN CONTAINING NEARLY ALL THE IMPORTANT ALCHEMICAL WORKS WRITTEN UP TO THIS TIME. No less than 43 different works are contained in the two parts of the book!

We only enumerate the following: Bracescho, *Lignum vitae et animadversio in eundem*.

Gebri opera omnia (88 pp.): *De investigatione perfectionis*. *Liber fornacum*. Etc.

Roger Bacon. *Speculum alchemiae*.

Richardus Anglicus. *Correctorium*. *Rosarius minor*.

Calid. *Liber Secretorum alchemiae*.

Liber de magni lapidis compositione et operatione, autore incerto.

Arnoldus de Villanova. *Thesaurus thesaurorum*.

Albertus Magnus. *De alchemia*.

Raymundus Lullus. *De veri lapidis compositione*. *Practica*. *De intentione alchimistarum*. *De alchimia*. Etc.

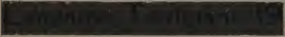
Aristoteles. *De perfecto magisterio*. **Johannes de Ruspecissa**. *De confectione veri lapidis*. **Augurellus**. *Chrysopoeia*. Etc. Etc.

Title stained. Some leaves browned. Otherwise good and complete copy of this highly interesting work.

Prices in Swiss Francs
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Dear Sirs:—

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(Alchemy), 1531, nr. 4.

4. (ALCHEMY). *Rechter Gebrauch der Alchimei mitt vil biszher verborgenen nutzbaren unnd lustigen Kuensten nit allein den fuerwitzigen Alchimisten, sonder allen kunstbaren Werckleutten in und ausserhalb feurs. Die Charakter figuerliche bedeutungen und namen der Metall, Corpus und Spiritus.* 28 leaves, including last blank. With nice woodcut on the title showing a jeweller in his shop. Small 4to. Boards. Without name of the printer or indication of the printer's town, 1531. Frs. 200. —

Rare German alchemical work. We mention: Preparation of jewels (leaves III, IV), of silver, copper, cinnabar, sulphur, aquafortis, to gild, to plate, numerous kinds of calcination, "aqua auripigmenti, aqua lunaris, aqua castica, petroleum", etc. etc. — Nice and fresh copy. — See reproduction above.

5. BIANCANI (Blancanus), Josephus, ex Societate Jesus. *Sphaera mundi seu cosmographia demonstrativa, in qua totius mundi fabrica cum Tychonis, Kepleri, Galilaei adinventis continetur.* Acc. *Introductio ad Geographiam.* Etc. 11 leaves, 447 (badly numbered 445) pp. With two folding tables. Quarto. Old limp vellum. Bologna, 1620. Frs. 60. —

Riccardi I, 127. *First edition of a rare and interesting work.*

A very interesting fact is that the author (a Jesuit), in this work, is one of the first to explain the system of Galileo. On pp. 387 begins an interesting bibliography of mathematics. Several mentions on America (pp. 382-83, etc.) are to be found.

6. BORGHI, Pietro. *Libro de Abacho.* 100 leaves. With small woodcut on the title and fine initial letters. 4to. Half vellum. Venice, Francesco Bindoni e Mapheo Pasyni, 1528. Frs. 115. —

Riccardi, 164. "Toutes les éditions de cet Abacho sont difficiles à trouver, et depuis quelques années on les recherche beaucoup". (Brunet).

One of the earliest important works on arithmetics. "The author's arrangement of the five acts of arithmetics is strange - they are numeration, multiplication, partition, summation and subtraction. Division is said at the head of

chapter to be done in three ways; but only two are given: that per cholona where the whole is done in one line, and that per batelo. The rule of three (riegola del tre) is given, and a large number of money-applications" (Morgan). — A few leaves stained in places and slight traces of use, but good copy. — *Scarce*.

7. BOUVILLES (Bovillus), Charles. *Conste ende practijke van Geometrien-een sonderlinghe profytelijk Boek*. 48 leaves. *With numerous woodcuts and geometrical diagrams. Woodcut of geometrical instruments on the title*. Quarto. Vellum. Antwerp, Jan Roelants, 1547. Frs. 150. —

Very rare Flamish edition of the first French work on geometry. This edition is unknown to Brunet and Smith. Bouvilles was a French scientist (ca. 1470-1553). — Title and last leaf slightly stained, but good copy of this very uncommon edition.

8. CAPELLA, Marcianus M. F. *De nuptiis philologiae et Mercurii libri duo. De grammatica, dialectica, rhetorica, geometria, arithmetica, astronomia, musica*. Ed. Fr. Vitalis Bodianus. Roman letter. 37 lines. 124 leaves. With woodcut diagram. Printer's device on black ground at the end. Folio. Old vellum. Vicenza, Henricus de Sancto Urso (Rigo di Ca Zeno), 1499. Frs. 350. —

Hain 4370. Proctor 7174. Pellechet 3224. Vouill. Berl. 4602. Smith, *Rara Arithmetica*, p. 66.

Finely printed from this uncommon Vicenza-press.

The book contains a comprehensive series of works dealing with the arts of speaking and writing, geometry, arithmetics, astronomy, and music. The geometrical section includes a geographical description of the world by countries. Smith (with reproduction of the title-leaf): "The seventh book is on the Greek theory of arithmetics. It treats of the various classes of numbers, such as plane and solid, and mentions the supposed mysteries of the smaller numbers, the monad suggesting one Good, and so on".

Remarkable the chapter on *Music* (Fétis II, p. 178).

A few quires at the beginning of the book browned, but good copy. Copies of this edition are priced in recent German and English Catalogues for the equivalent of 1.250 Swiss Francs!

9. CARDANUS, H. *Metoposcopia libris tredecim cui accessit Melampodis de Naevis corporis tractatus*. 4 leaves, 8 pp., 226 pp., 1 leaf. With about 800 woodcuts. Folio. Half calf. Paris, 1658. Frs. 85. —

Brunet I, 1573. Caillet quotes only a French (?) edition of 1658.

First edition. "Cardanus' *Metoposcopia* is illustrated with 800 cuts of human faces, an astrologic physiognomy, based upon the idea that the furrows in the fore-head were influenced by the seven celestial bodies and that horoscopes might be drawn from such data" (Garrison). — Very fine copy. *Rare*.

10. DENTICE, Luigi. *Due dialoghi della musica, delli quali l'uno tratta della theoria et l'altro della pratica*. 40 leaves. *With numerous diagrams and musical notations*. 4to. Vellum. Rome, Vincenzo Lucrino, 1553. Frs. 95. —

Fétis II, 470. *Rare*.

"Dentice traite principalement dans ces dialogues des proportions et de la

tonalité de la musique des anciens, et prend pour guide le traité de Boece " (Fétis). Dentice, a Neapolitan about 1550, was also a well known composer. The first part belongs to the classic Greek musical authors, the second deals with musical theory and contemporaries. — A few insignificant dampstains, but fine copy.

11. DUERER, Albrecht. *Institutionum geometricarum libri quatuor*. 4 leaves, 185 numbered pp., 1 leaf. With numerous fine woodcuts of geometry, architecture, alphabet, triumphal columns, draughtsmen using apparatus, etc. and the slips. Folio. Modern vellum. Paris, Chr. Wechel, 1532.

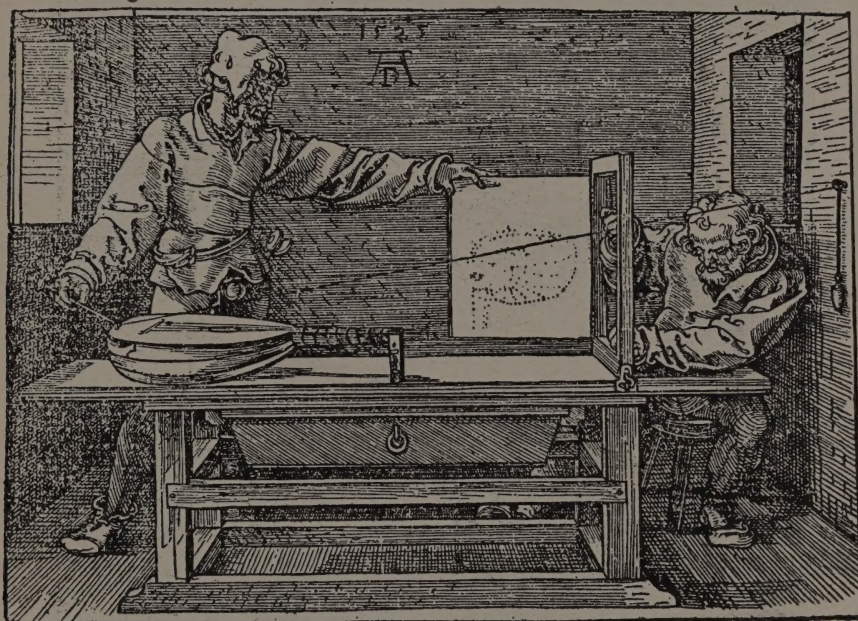
Frs. 400. —

The very rare first Latin edition, only preceded by the *Editio princeps* in German, Nuremberg, 1525.

This work treats of the general principles of artistic design and proportion. It contains Duerer's designs for the Letters of the Alphabet, the forerunner of Tory's "Champfleury" on the same subject. Among the illustrations are several famous cuts, such as the "Trophy of the Peasants' War", the "Designer of the sitting man", the Designer of the Lute, etc.

This first Latin edition is of particular rarity.

There are a few really very insignificant wormholes, but a very fine and spotless copy. — See reproduction below.



Duerer, *institutiones geometricae*, 1532 (reduced), nr. 11.

12. EUCLIDES. *Geometricorum elementorum libri quindecim*. Campani Galli transalpini in eosdem commentariorum libri. Theonis Alexandrini commentariorum libri Barth. Zamberto interprete. Hypsiclis Alexandrini commentariorum libri. 261 leaves, 1 blank leaf. With numerous geo-

Prices in Swiss Francs

metrical diagrams throughout in margins and some splendid large woodcut initial letters on ground criblé and many smaller initials. Folio. Vellum. Paris, Henricus Stephanus, 1516. Frs. 200. —

Brunet II, 1088. Riccardi II, 646-47: "Raro volume".

Rare and early edition of Euclides, **beautifully printed by Estienne's famous press**, adorned by admirable initial letters.

Published by Michael Pontanus and Jacques Le Febvre who has dedicated this edition to François *Brissonet*. The translation now has been attributed not to Campanus, but to Adelad of Bath, an Englishman. —

Insignificant repairs on the outer margins of the first eight leaves, but a *splendid copy with extremely wide margins* (margins measuring 80 mm.). *A masterpiece of Estienne's typographical art.* Many interesting marginal annotations by a contemporary hand.



Galilei, *macchie solari*, 1613; *Saggiatore*, 1623, nrs. 13. 14.

Prices in Swiss Francs

GALILEI'S CHIEF WORK.

13. **GALILEI, Galileo.** *Istoria e dimostrazioni intorno alle macchie solari e loro accidenti...* Si aggiungono nel fine le lettere, e disquisizioni del finto Apelle. 4 pp., 164 pp., 56 pp. *With the famous portrait by Villamoena, 44 fullpage engravings, four engravings in the text, one folding plate and 17 woodcuts in the text.* Small 4to. Beautiful modern blue morocco binding. Rome, Giacomo Mascardi, 1 6 1 3. Frs. 1.350. —

ONE OF THE MOST IMPORTANT BOOKS IN THE HISTORY OF SCIENCE.
THE RAREST WORK OF GALILEI.

CONTAINS GALILEO'S DISCOVERY OF THE SUN-SPOTS- the priority of which is, however, claimed for Jan Fabricius- but more important still for the discovery, based on his observations, **THAT THE SUN TURNS ROUND ITS AXIS.** For the first time he avowed himself in the work a follower of Copernicus, which brought him under the suspicion of the Roman Curia, and ended with his imprisonment after the publication of the *Dialogo*.

It seems to be unknown to the bibliographers that there are **two different issues of the first edition of this work, published in the same year (1613).** Our edition is exceedingly rare. Even in Riccardi's copious list of Galileo's works our present edition has not been described. It differs considerably from the one described by Riccardi, by having an APPENDIX OF 56 pp., with additional plates, entitled: "De maculis solaribus tres epistolae. De iisdem et stellis circa Jovem errantibus. Disquisitio ad Marcum Velsorum". The author of those three letters was the Jesuit-Father, Christ. **Scheiner**, who claimed to be the real discoverer of the sun-spots. These letters ARE NOT CONTAINED IN THE SO-CALLED FIRST EDITION, DESCRIBED BY RICCARDI.

A copy of this second issue of the first edition has been offered in a most recent catalogue for the equivalent of 3.125 Swiss Francs, with the following description: "Only one copy has appeared at Auction in recent years and that was without the important second part, which is contained in the copy now offered". —

Excellent copy of this standard work.

— See reproduction p. 6.

14. **GALILEI, Galileo.** *Il saggiaiore nel quale con bilancia esquisita e giusta si ponderano le cose contenute nella libra astronomica e filosofica di Lotario Sarsi.* 7 leaves, including title and portrait, 236 pp. *With fine allegoric title, the famous portrait of Galilei, both engraved by F. Villamoena and several diagrams in the text.* 4to. Modern wrappers. Rome, Giacomo Mascardi, 1623. Frs. 275. —

Riccardi 511. Brunet II, 1462, Gamba 474.

Editio princeps. Complete copies, as ours, with the portrait and all preliminary leaves of preface and dedication, are extremely rare.

An answer to Horatio Grassi's polemics against Galileo on the nature of the comets, and still unsurpassed as a masterpiece of crushing scientific criticism.

There are some browned leaves, but good copy. Stamp on title.

— See reproduction p. 6.

THE UNDISCOVERABLE LETTER TO THE
GRAND DUCHESS CHRISTINA, 1636.

15. GALILEI, G. *Systema cosmicum*, in quo quatuor dialogis de duobus maximis mundi systematibus, Ptolemaico et Copernicano, disseritur. 8 leaves, 495 pp., 12 leaves including the leaf of Errata. *With engraved frontispiece showing Aristotle, Ptolemy and Copernicus, the fine portrait of Galilei, engraved by J. V. Heyden and numerous diagrams in the text.* 4to. "Augustae Trebocorum, Impensis Elzeviriorum, Typis, D. Hautti, 1635".

Bound up with :

GALILEI, G. *Nov-Antiqua sanctissimorum patrum et probatorum theologorum doctrina*, de sacrae scripturae testimoniis, in conclusionibus mere naturalibus, quae sensata experientia evinci possunt, in gratiam CHRISTINAE LOTHARINGAE. 4 leaves, 60 pp., 2 leaves. 4to. "Augustae Trebocorum, Impensis Elzeviriorum, Typis D. Hautti, 1636".

The two works bound together. Very fine original binding of red calf, gilt border on both covers, gilt back. Frs. 500. —

I: **First Latin edition** (only preceded by the Italian edition of 1632), of this epoch-making work, a masterly defence of the Copernican system, but causing its author's imprisonment, and his being put to the torture. The work having been rigidly suppressed, not only for its "heretical" views, but also for having offended Pope Urban VIII's vanity, who believed himself satirised as the dull interpreter of the Aristotelian system, any early edition **has become very rare.**

Riccardi I, 512-13.

II: **OF UTMOST RARITY.** Riccardi, I, 515-16: "Rarissimo".

The *Nov-antiqua Doctrina* first contained Galileo's **FAMOUS LETTER TO THE GRAND DUCHESS CHRISTINA**, which was afterwards republished with the second edition of the *Dialogo* in 1710. **IT IS EXCEEDINGLY RARE**, and according to the *Libri Catalogue* (1861), "*was so rigidly suppressed that only a few copies are supposed to have escaped destruction, one of which sold for 135 Lire at the Gradenigo Sale*".

Partly very browned on account of the poor quality of the paper, otherwise a very good and very large copy with a few unopened margins.

— See reproduction p. 18.

16. GALILEI, G. *Discorsi e dimostrazioni matematiche intorno a due nuove scienze attenenti alla meccanica & i movimenti locali*. Con una appendice del centro di gravità d'alcuni solidi. 4 leaves, 306 pp., 3 leaves. *With numerous woodcuts and diagrams.* Elzevir's device on title. 4to. Original vellum. Leyde, Elzevir, 1638. Frs. 275. —

Rare first edition of one of the author's most important works, which did as much to lay the foundation of dynamics as Stevinus' *Beghinselen* did for that of statics, and containing the **first law of motion**, his laws of falling bodies, demonstrating the parabolic curves of projectiles, the law of cohesion, and of the pendulum, a correct definition of momentum etc. etc.

Riccardi 516. Gamba 478.

Copies, as ours, with the three leaves of the table, are of particular rarity. — Our copy of this rare work shows some waterstains and traces of use, otherwise a good and complete copy.

17. GALILEI, G. *Sidereus Nuncius*, magna longaque admirabilia spectacula pandens, quae sunt observatae in lunae faciei, fixis innumeris, lacteo circulo, stellis nebulosis, apprime vero in quatuor planetis... quos novissime Auctor deprehendit primus; atque medicea siderea nuncupandos decrevit. 173 pp. *With four plates and numerous diagrams.* 8vo. Old vellum. London, Flesher, 1653. Frs. 100. —

Riccardi I, 508.

Contains Galileo's most important discovery of the four satellites of Jupiter, called by him Medicean stars. Their different position at different times induced him finally to accept the Copernican theory. Contains also Kepler's Dioptrice. — Two stamps cancelled.

18. GALILEI, G. *Opere*. Three vols. 112, 644 (badly numbered) pp., 1 leaf; 4 leaves, 722 pp., 1 leaf; 3 leaves, 484 pp., 25 leaves. *With fine portrait of Galileo, engraved folding plate and numerous diagrams in the text.* Large 4to. Original vellum. Florence, 1718. Frs. 100. —

Riccardi I, 520-22.

Second, collected edition, *greatly enlarged*. "This edition had the fortune to be compiled before Galileo's manuscripts were dispersed" (Mieli). — Fine copy.

19. CATALOGUE of an Unique Collection of Editiones Principes of Works of Galileo Galilei. 26 pp. Containing full description of 20 items. Illustrated by 12 fullpage reproductions. Large 8vo. Printed on handmade-paper. The collection has been sold en bloc by our firm. Only a few copies are still available. A copy Frs. 2.50

20. GESNER, Konrad. *De secretis remediis liber*. Acc. Jacobi Besoni de absoluta ratione olea, simplicibus extrahendi. 580 pp., 20 leaves. *With numerous interesting woodcuts (stills, etc.).* Device on last blank leaf. 8vo. *Nice original binding* of wooden boards covered with richly stamped calf (clasps missing). Zuerich, Andreas Gesner, 1554. Frs. 100. —

First edition. Gesner's treatise appeared under the pseudonym of Evonymus Philiatier. It is to be presumed that most copies of this edition bear another title-page, in the first place in order to cancel Gesner's authorship, in the second place because the edition, for some reason or other, does not contain Besson's treatise, although announced on the title.

"This book deals with distillation, and is the forerunner of the books of Glauber and French, as it is the successor of those of Brunschwig and Ulstadt. It gives an account of plants to be distilled, of furnaces and other apparatus, and the methods of getting the virtues out of plants, animals, and minerals, and their uses in effecting cures" (Ferguson). — *Very fine copy in a nice binding.*

21. HUYGHENS, Christiaan. *Cosmotheoros sive de terris coelestibus, earumque ornatu, coniecturae*. 1 leaf, 144 pp., 5 blank leaves. *With 5 copper plates relating to astronomy.* 4to. Old vellum. The Hague, 1699. Frs. 85. —

Published posthumously. Contains the author's views of the plurality of worlds, and the first attempt at stellar photometry by comparing the light of the Sun with that of Sirius. Second edition of Huyghen's celebrated last work. *One of the most important works of Huyghens.* — *Rare.*

22. KEPLER, Johannes. *Harmonices mundi libri quinque*. 4 leaves, 66 pp., 255 pp. *With four copperplates, woodcuts and diagrams*. Folio. Old vellum. Linz, J. Plancus, 1619. Frs. 300. —

Brunet III, 652. Fétis, V, p. 46.

EDITIO PRINCEPS OF ONE OF KEPLER'S MOST IMPORTANT WORKS.

Kepler's second great work ('his chief work' - W. W. R. Ball), containing for the first time his 'third law': The square of a planet's periodic time is proportional to the cube of its mean distance from the sun. As is well known these three laws formed the ground-work of Newton's discoveries, and are the starting point of modern astronomy.

The work is divided into five books: I. Geometry. II. Architecture. III. Harmony. IV. Metaphysics, Psychology and Astrology. V. Astronomy and Metaphysics. Follows an appendix containing a comparison of Kepler's work with Cl. Ptolemaeus' *Harmonices libri III*, Robertus de Fluctibus' *Speculationes harmonices* and *De macrocosmo et microcosmo insertis*. —

Very rare. Two stamps cancelled.

23. KEPLER, J. *Tabulae Rudolphinae quibus astronomicae scientiae, temporum longinquitate collapsae restauratio continetur, a Phoenice illo astronomorum Tychone concepta.... post mortem authoris iussu Rudolphi, Matthiae, Ferdinandi annitentibus heredibus Braheanis ex fundamentis observationum relictarum Johannes Keplerus in publicum extulit. Fine engraved title* showing Hipparchus, Ptolemaeus, Copernicus, Brahe and in the bottom part, Muenster. 4 leaves, 125 pp., 1 leaf, 120 badly numbered pp. Folio. Original calf, back gilt. Ulm, J. Saurius, 1627-30.

Frs. 300. —

Brunet III, 652.

This work is the result of the labour of 26 years of Kepler and is based on the discoveries of Brahe. - "The value of these tables appears from the fact that they ranked for a century as the best aid to astronomy. Appended are tables of logarithms and of refraction, together with Tycho's Catalogue of 777 stars, enlarged by Kepler to 1005" (Agnes M. Clerke). — Fine copy.

24. KIRCHER, Athanasius. *Mundus subterraneus*. *Two parts*. 16 leaves, 346 pp., 3 leaves; 6 leaves, 487 pp., 4 leaves. *With two different engraved frontispieces, portrait of the pope Alexander VII, 23 engraved (partly double-page) plates and 20 tables*. Folio. Old calf (back damaged). Amsterdam, Janssonius, 1665. Frs. 100. —

First edition.

Caillet 5783. Among the numerous writings, of Father Kircher, his "Mundus Subterraneus" is one of the most interesting ones. It includes geology, mineralogy, mining and metallurgy. "Cet ouvrage contient la relation d'un grand nombre de faits fabuleux ou controuvés, tels que des récits sur les géants, les dragons et autres animaux chimériques" (Bibl. Gén.). — A couple of wormholes through the margins of some leaves.

25. KOEBEL, H. Jakob. *Geometrei / vonn kuenstlichem Messen unnd absehen / allerhand hoehe / fleche / ebene / weite unnd breyte mit kuenstlich zubereiteten Jakobstab / schatten und Meszruten.* 28 leaves. With 10 very nice, large woodcuts, several smaller ones and diagrams. 4to. Modern half vellum. (Oppenheim), 1536. Frs. 100. —

Early edition illustrated by very nice woodcuts, probably by J. Amman.

"This work on land-surveying and the use of the quadrant is far rarer than his Arithmetic. In it he makes use of Arabic numerals" (Libri-Catalogue).

"Koebel was born at Heidelberg in 1470; died at Oppenheim in 1553. He studied at Cracow, where Copernicus was his fellow-student. He was a man of varied attainments, meeting with success as a Rechenmeister, printer, engraver, woodcarver, poet, and public official" (Smith). — See reproduction p. 12.

26. (LAPIS PHILOSOPHORUM). — (LACINIUS, Janus). *Pretiosa Margarita novella de thesauro ac pretiosissimo philosophorum lapide. Collectanea ex Arnaldo, Rhaymundo, Rhasi, Alberto, et Michaele Scoto.* Italic letter. 20 leaves, 202 leaves, 16 leaves. With 22 peculiar woodcuts. Aldus' device at beginning and end. 8vo. Original limp vellum. Venice, "apud Aldi filios", 1546. Frs. 175. —

Editio princeps.

"Ce volume est rare et ne se trouve que mal conservé et délabré; il aura dû éprouver plus d'un accident auprès des fourneaux des adeptes" (Renouard).

This collection, finely printed by Aldus' press, contains the most important classical treatises on alchemy and especially on the Lapis philosophorum. Very little is known of the editor. Kopp states that this work first contains the work of Petrus Bonus, originally written in Pola in 1330-39. He also mentions in his Geschichte der Chemie that Bonus and Albertus Magnus were the first to mention potter's glazing made of lead and tin, and gives an account of the former's theory of fermentation. The collection contains the following works: Petrus Bonus: De thesauro et lapide philosophorum. De principiis metallorum. De generatione metallorum. Etc. — Collectanea Lacinii ex Arnaldo de Villa Nova quae practicae compositionem lapidis philosophorum continent. — Epitome Raymundi Lulli. — Collectanea Lacinii sive brevita excerpta ex libro luminis luminum Rhasis. Etc. Etc.

This work is becoming rapidly rare. Top margins of several leaves slightly wormed not affecting anywhere the text, some traces of use through the book, otherwise good copy.

27. LAVOISIER, A. L. *Traité élémentaire de chimie, présenté dans un ordre nouveau et d'après les découvertes modernes.* Two vols. 44 pp., 322 pp., 8 pp., 327 pp. With 13 folding copper-plates and two tables. 8vo. Boards. Paris, 1793. Frs. 75. —

ONE OF THE MOST IMPORTANT WORKS IN THE HISTORY OF CHEMISTRY.

This work finally freed the science from its phlogistic chains, and formed the starting point of modern chemistry.

Copies with the third part are of particular rarity. — Fine copy.



Koebel, Geometrei, 1536, nr. 25.

28. LEUPOLDUS, (ducatus Austriae filius). *De astrorum scientia* decem tractatus continentis compilatio. 94 leaves. With woodcut on title showing an astronomer, below Sessa's device, larger woodcut on recto of folio 2 showing a hand holding a sphere, numerous diagrams in the text and about 50 large and small nice woodcuts of the constellations; many woodcut initials. 4to. Venice, Melchior Sessa and Petrus de Ravanis, 1520.

Bound up with :

GAURICUS, Lucas. *Super tabulis directionum Johannis Monteregiensis supplementum*. 4 and 88 leaves, last blank. 4to. Rome, 1560.

Bound up with :

PERLACHIUS, (Andreas Stirus, Steier?) *Commentaria ephemeridum*. 8 and 104 leaves, last blank. With woodcut on verso of leaf 2 (coat of arms). 4to. Vienna, Egidius Aquila, 1551. The three books bound together. Pretty original calf, gilt ornaments in the centre. Frs. 200. —

I: Essling III, 401. Nice copy of this rare book adorned by a great number of fine woodcuts, of which Essling gives exact description.

II: Gauricus was professor of mathematics successively at the universities of Bologna, Ferrara, Venice and Rome. Very fine and fresh copies of the three works. Stamp on first title cancelled. — See reproduction p. 14.

29. **LIBAVIUS** (Libau), Andreas. *Rerum chemicarum epistolica forma ad philosophos et medicos quosdam in Germania excellentes descriptarum Liber Primus*, in quo tum rerum quarundam naturalium continentur explanationes ingeniosae; tum Chymiae disciplina pyronomica declaratur. *Liber secundus*, continens operationes chymicas artificum de physicis quibusdam et aurificio problematis iucundis. *Liber tertius*, in usum et oblectamentum eorum, qui de naturae et arcanis artis disserere cupiunt. Three vols. 16 leaves, 300 pp., 1 leaf; 16 leaves, 615 pp.; 8 leaves, 448 pp. Small 8vo. Original vellum. Frankfurt, 1595-1599. Frs. 90. —

Rare as containing all the three parts, published in different years.

"Libavius was the first chemist of note in Germany who stood up energetically against the excesses of Paracelsus, and who vigorously combated the defects in his doctrines. Originally a physician, Libavius attained to a high knowledge of chemistry, which he helped to extend. Thanks to his medical knowledge and to his thorough general education, he was able to appreciate better than his contemporaries the influence which chemistry ought to exercise upon medicine" (E. v. Meyer). — Contains Libavius' correspondence with his contemporaries. — A few wormholes. Browned on account of the quality of paper.

30. **LULL** (Lullus), Raymundus. *Ars magna generalis et ultima*, per magistrum Bernardinum *Lavinheta* eliminata. *Black letter*. 4 and 124 leaves. Title printed in red and black. *Nice woodcut border around the title with Vincent's large device, three large woodcuts (diagrams, etc.) partly with movable flaps, smaller diagrams, a very great number of pretty large and small woodcut initials and another device of Vincent on the verso of the last leaf*. Small 4to. Original limp vellum. Lyons, Jacques Maréchal for Simon Vincent, 1517. Frs. 275. —

Palau y Dulcet IV, p. 293. Early and rare edition, printed by Maréchal's famous press.

"A prominent early representative of the Arabist teachings of Montpellier was the alchemist Raymond Lully (1235-1315), a native of Majorca, who, in addition to the philosopher's stone, sought the 'aurum potabile' or liquid gold, as a sovereign elixir against disease. Having entered the order of the Minorites, he learned Arabic through his desire to convert the Moslems of North Africa and, in this way, became acquainted with Arabian chemistry and brought some of its ideas into Europe" (Garrison). — Divided into 13 parts: De alphabeto, figuris, diffinitionibus, tabula, evacuatione tertiae figurae, mixtione principiorum et regularum, novem subiectis, applicatione, quaestionibus, etc. — Slightly browned, wormholes on last two leaves, otherwise good copy. Old owner's annotations on the title.

31. **LULLUS**, R. *De secretis naturae sive quinta essentia libri duo*. — **ALBERTUS MAGNUS**. *De mineralibus et rebus metallicis libri quinque*. Publicata per Gualth. H. Ryff. 324 pp., 4 leaves. *With several, partly full-page woodcuts (stills); nice device at the end*. 8vo. Old boards. Venice, Petrus Schoeffer, 1542. Frs. 140. —

1: Palau y Dulcet IV, p. 298. Caillet 6858.

2: *Albertus Magnus*: This book belongs to the authentic writings of Albertus Magnus (1193-1280). It describes the general qualities of minerals, 95 precious stones, 7 metals, besides, salt, vitriol, alum, arsenic, pyrites, nitrum, tutia, electrum, etc. — Edited by Walter Ryff. — *Excellent copy of an uncommon book*.



Leopoldus, Venice, 1520, nr. 28.

32. MARTINI, Giambattista. *Esemplare o sia saggio fondamentale pratico di contrapunto sopra il canto fermo e contrapunto fugato*. Two vols. with different titles. 32 pp., 260 pp.; 48 and 328 pp. *With many full musical notations and table*. Large 4to. Half calf. Bologna, 1774.

Frs. 90. —

Fétis, VI, p. 1. Eitner VI, 356.

"L'ouvrage le plus considérable de Martini. Le premier volume est relatif au contre-point sur le plein-chant; le second, au contrepoint fugué." (Fétis). Martini (1706-1784) is well known for his "*Storia della Musica*" and other works on the theory of music. — Fine copy.

33. (GEOMETRY). — (MERE, Jaspar de ?). *Const der geometryen leerende hoemen alderhande breyden lengden dicten hoochden en alderhande dinghen meten sal*. 30 leaves. *With large woodcut on the title showing three men with geometrical instruments, full-page woodcut (geometrical instrument), and many diagrams*. Quarto. Modern half vellum. Antwerp, Jan Roelants, 1547.

Frs. 150. —

Very rare.

Nothing seems to be known on this Flamish edition of this geometrical work. It is adorned by a very interesting woodcut on the title. — Bottom blank margin of last leaf mounted; slightly browned. Good copy.

34. MERIAN, Matthaeus. *Topographia Helvetiae, Rhaetiae et Vallesiae*, das ist Beschreibung und eigentliche Abbildung der vornembsten Staette und Plaetz in der Eydgenossenschaft Graubuenden, Wallisz und etlicher zugewanten Orten. 72 pp., 4 leaves. *With allegoric title and 56 pretty double-page plates and maps of the above mentioned Swiss countries*. Folio. Old half calf. (Frankfurt), 1642.

Frs. 185. —

Rare first edition of Merian's famous work on Switzerland, adorned by fine views of Swiss towns. — Insignificant traces of use. Good copy.

35. MORUS, Th. *Utopiae libri II. Lucubrationes. Progymnasmata. Epigrammata. Ex Luciano conversa quaedam. Declamatio Lucianicae respondens. Epistolae. Quibus additae sunt duae aliorum Epistolae, de vita, moribus et morte Mori.* 16 leaves, 530 pp., 23 leaves. *With full-page woodcut of the island of Utopia.* Printer's device (repeated). 8vo. Old vellum. Basel, Episcopius, 1563. Frs 100. —

Good edition of Thomas Morus' works, including his most famous "Utopia". The passages relating to America and mentioning Amerigo Vespucci are to be found on pp. 4 and 5. — First and last leaves waterstained, but good copy. Former owner's name on title cancelled.

36. NEWTON, Isaac. *Philosophiae naturalis principia mathematica.* 14 leaves, 484 pp., 5 leaves (last blank). *With folding plate and numerous diagrams.* 4to. Nice original calf binding. Cambridge, 1713. Frs. 115. —

Rare second edition of one of the most important works on exact science.

This edition contains considerable additions by the author, while the chapters on the lunar theory and the theory of comets were much enlarged. It was edited by Roger Cotes, whose preface, — in which he vigorously attacks the Cartesian philosophy then still in vogue at the universities, and refutes an assertion that Newton's theory of attraction is a *causa occulta*, — is of great historical importance. Seven hundred and fifty copies were printed of this edition, which has now become rare.

Very fine copy in original binding.

37. PORCACCHI, Th. *L'isole più famose del mondo, intagliate da G. Porro.* 14 leaves, 201 pp. *With 47 engraved maps, 8 of which relating to America, frontispiece and printer's device.* Folio. Old vellum. Venice, 1576. Frs. 100. —

This edition is often regarded as the first. The following maps relate to America: Temistitan, Mondo Nuovo, Spagnuola, Cuba, Jamaica, S. Giovanni, Mappamondo, Carta di navigare. — Title stained, otherwise good copy.

38. PORTA, Johannes B. *Magiae naturalis libri XX. De mirabilium rerum causis... de novis plantis producendis... de metallorum transmutatione... de miraculis magnetis... de mulierum cosmetice... de staticis experimentis... chaos.* 8 leaves, 303 pp. *With woodcut border around the title, portrait and great number of woodcuts (vignettes, figures, diagrams etc.); large initial letters on black ground.* Folio. Old limp vellum. Naples, H. Salvianus, 1589. Frs. 100. —

Editio princeps of the complete work in 20 books, and very rare. This work was translated into many foreign languages. *Porta's Magia naturalis* is one of the most important works on natural sciences published during the XVIth century. Some of these 20 books were afterwards published in an enlarged and separate form. The most important book is the seventeenth which contains Porta's invention of the camera obscura without the lens, and the *lanterna magica*. Some marginal annotations. Large copy.

39. **PORTA, J. B.** *De occultis literarum notis seu artis animi sensa occulte aliis significandi.* Acc. Auctarium. 8 leaves, 586 pp., 12 leaves. *With folding-plate and numerous woodcuts in the text* showing different systems of secret writings. 8vo. Wrappers. Strassburg, 1606. Frs. 50. —

Brunet IV, 826. Caillet III, 313.

Early treatise on *secret writing*. "Porta indique 180 procédés différentes, met en outre sur la voie de les multiplier à l'infini" (Bibl. Gén.). "Ouvrage fort rare et extrêmement curieux. Il peut être mis en parallèle avec la Steganographie de Trithème et le traité des chiffres de B. de Vigenère" (Caillet). This edition contains first the "Auctarium". — Brownd. A few wormholes. Scarce.

40. **PTOLEMAEUS.** *La geografia.* Con alcuni comentì da Sebastiano Munstero, le tavole di J. Gastaldo, ridotta da P. A. Matthiolo. 8 leaves, 214 leaves, 1 leaf containing register and colophon, 1 blank leaf, 60 double leaves, 64 unnumbered leaves. *With border round the title, large woodcut on recto of the second leaf, some diagrams in the text; 60 double-page engraved maps.* 8vo. Old limp vellum. Venice, G. B. Pedrezano, 1548.

Frs. 325. —

Harris 285.

The first edition of Ptolemy's Geography in Italian. Very rare.

The translation was made by Pietro A. Matthioli, a learned physician of Siena, and the maps were designed and added by Giacopo Gastaldo, who also wrote the dedication. A whole series of 34 new maps are here found, for the first time, and some of them are of great interest to the history of geography. Among these maps are seven of **AMERICA**, viz.: Terra Nuova (South America), Nova Hispania (Central-America), Terra Nova de Bacalaos, Isola Cuba, Spaniola, Universale Nuovo, Carta marina universale. — Corners of some leaves slightly waterstained, a couple of wormholes through the inner margins of some maps, inner margins of a few leaves strengthened. Complete copies like ours, are of particular rarity.

41. **PTOLEMAEUS.** *Geografia cioè descrittione universale della terra.* Two parts. 2, 62, 22, 14, 212, 30 leaves. *With 64 maps and several figures in the text.* Printer's device. Folio. Vellum. Venice, Galignani, 1597-98.

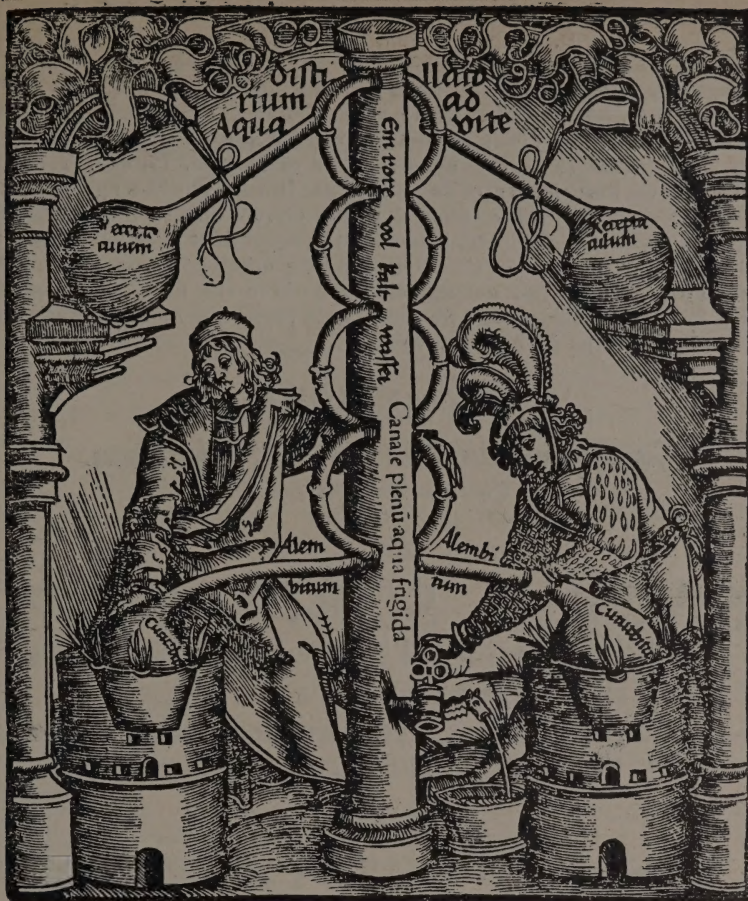
Frs. 150. —

The best of the folio-Ptolemaeus-editions published by Magini, containing several maps relating to **America**, amongst which a special map of America. — Insignificant repairs on the title, some brownstains on some leaves as usual, but good, complete copy.

42. **RABBI SAMUEL.** *Tractatus errorem iudaeorum indicans.* Printed in nice Italics. 32 leaves, last blank. Small 8vo. Old limp vellum. Venice, G. de Rusconibus, 1518.

Frs. 90. —

Samuel Abu Nasr Ibn Abbas, of Fez, lived in the twelfth century. He studied philosophy, mathematics, and medicine. He travelled in Irak and Syria, and claimed to have had two visions in which Mohammed appeared to him. He thereupon embraced Islam. His "Confutation of the Jews" is the basis of the present tract which was very often printed. — Bound at the end a manuscript of biblical interest, written in the 16th century. — Nice copy.



Ulstadius, Strassburg, 1528, nr. 45 (reduced).

43. RAMUSIO, Giovan-Baptista. *Navigazioni e viaggi*. Three vols. I: 38 and 394 leaves; II: 2, 28 and 156 leaves; III: 6, 36 and 430 leaves. With three engraved double-page maps and large woodcuts in the first vol., one full-page cut in the second, seven double page maps and two full-page cuts in the third vol. greatest part of which relating to America; numerous woodcut initials and printer's device in each vol. Folio. Old vellum. Venice, Giunti, 1559, 1563 and 1606. Frs. 425. —

One of the earliest and most important collections of voyages and travels of the sixteenth century, the third vol. being entirely devoted to AMERICA.

"Ramusio's collection of voyages and travels is the most perfect work of that nature in any language whatsoever, containing all the discoveries to the east, west, north, and south... much more complete and full than the Latin De Bry, and in fine is the noblest work of this nature" (Locke). "The publication of Ramusio's Raccolta may be said to open an era in the literary history of Voyages and Navigation" (Harris).

The third volume contains a. o. the descriptions of the following discoveries of the New World: Martyr, historia delle Indie Occidentali, Oviedo, Naturale e

generale historia delle Ind. Occid., Cortez, relazioni 2., 3., 4. della Nuova Spagna 1520-24., Alvarado, e D. Godoy, scoprimenti nella Nuova Spagna 1524, Relazioni d'un gentilhomme di Cortese del Messico, Xeres, conquista del Peru, Cartier, prima e seconda relazione di viaggi alla Nuova Francia 1534 e 35, tre navigazioni di Olandesi e Zelandesi al Settentrione verso il Catai, Nova Zembla, Groenlandia ecc., 1594-96 (in our 1606 edition of the third volume newly added) and many others.

The maps in the third vol. show: Views of Mexico, Cuscho, Terra de Labrador, La Nuova Francia, Terra de Hochelaga, Brasil, World-map etc. etc. The cuts in the text represent exotic animals, plants etc. — This edition of the Ramusio is priced in a recent English Catalogue for the equivalent of 1.900 Swiss Francs.

Vol. 2 of a little smaller size than the two others. Former owner's name cut off from the three titles, not affecting anywhere the text, some leaves insignificantly browned, besides an unusually well preserved and absolutely complete copy with all the maps in best condition.

NOV. ANTIQUA

*Sanctissimorum Patrum, & Probatorum
Theologorum Doctrina,*

De

SACRÆ SCRIPTURÆ TESTIMONIIS, IN CONCLUSIONI-

BUS MERE NATURALIBUS, QUÆ SEN-
satâ experientiâ, & necessariis demonstrati-
bus evinci possunt, temere non usurpandis.

In gratiam

Serenissima CHRISTINÆ Lotharingæ.

*Magna-Ducis Hetruriae, privatim ante complures
annos, Italico idiomate conscripta*

a

GALILAEO GALILAE O, Nobili

Florentino, Primario Serenitatis Ejus Phi-
losopho & Mathematico:

*Nunc vero juris publici facta, cum Latina versione
Italico textus simul adjuncta.*



Augustæ Treboc.

Impensis ELZEVIRIORVM,

Typis DAVIDIS HAVTTI.

M. DC. XXXVI.

Galileo's famous "Lettera a Christina", first edition, 1636, nr. 15.

Prices in Swiss Francs

44. **STOEFFLER, Johannes.** *Tabulae astronomicae.* Verarum mediarumque coniunctionum et oppositionum solis et lunae exactissima supputatio pro omni tempore. Eclipsium luminarium praedictio. 24 leaves. Printed in red and black. With the folding plate at the end showing the "Instrumentum astrologicum". Folio. Modern half vellum. Tuebingen, Thomas Anshelmus, 1514. Frs. 75. —

Apparently first edition. Very fine copy. Part of the folding map repaired.

45. **ULSTADIUS, Philippus.** *Coelum philosophorum seu de secretis naturae liber.* 64 leaves. *With large allegorical alchemistical woodcut on the title-page, interesting full-page cut on v. of folio III showing people at a still, two other full-page cuts representing distilling apparatus and many partly half-page size figures in the text relating to distillation; large woodcut initials.* Large 4to. Vellum. Strassburg, J. Grueninger, 1526. Frs. 200. —

Brunet V, 108. One of the earliest important works on distillation and alchemy.

"Les nombreuses éditions qui ont été faites de cet ouvrage en attestent le grand succès". Caillet: "Livre rare... contenant les véritables principes de la philosophie hermétique".

We mention: *Quid sit quinta essentia, de modo extrahendi quintam essentiam, de auro potabili ex floribus cordialibus, cum gemmis, de aqua vitae composita, etc. etc.*

Partly browned. Two leaves with short margins. Last three leaves water-stained in places, otherwise good copy of this rare work.

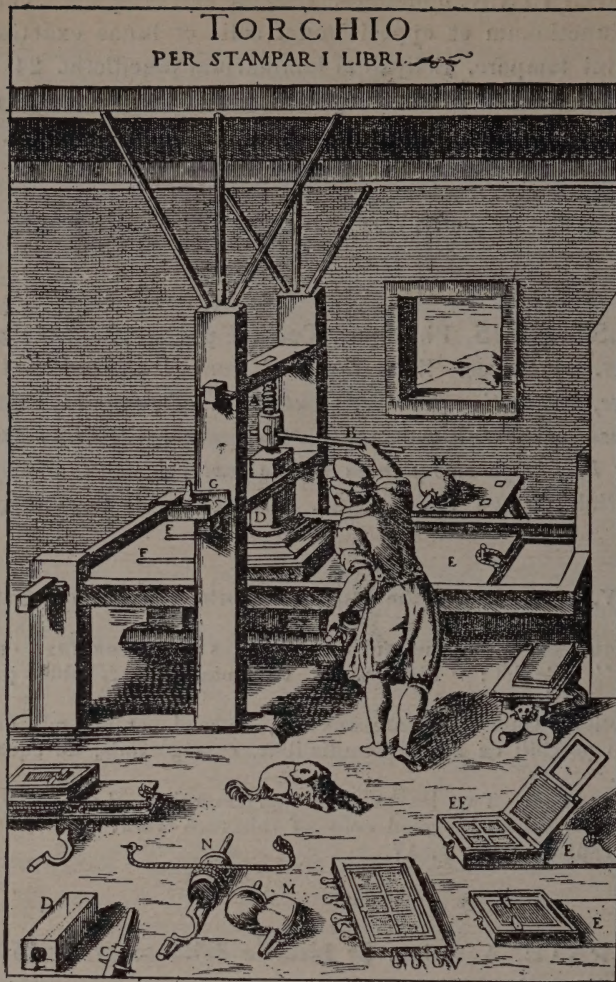
— See reproduction p. 17.

46. **ZARATE, Agostino.** *Le historie dello scoprimento et conquista del Peru,* nelle quali si ha particolar relatione delle cose successe in quelle bande, dal principio fino alla pacificatione delle Provincie. Nuovamente di lingua castigliana tradotte da Alfonso *Ulloa*. 8 leaves, 294 pp., 1 blank leaf. Printer's device (repeated). Small 4to. Half vellum. Venice, Giolito, 1563. Frs. 165. —

Palau VII, p. 250.

First Italian edition.

"To the latter part of the period of the Pizarros belongs the account given by Augustin de Zarate, who was sent to Peru to take charge of the accounts of the 'kingdoms and provinces of Peru', at the time that Blasco Nunes Vela was commissioned to become the first viceroy of the Spanish possessions in South America... Having played his part in this turbulent period, a part regarding which writers venture a variety of opinions, Zarate returned to Spain, and, using notes made in America, wrote the *Historia del descubrimiento y conquista de la provincia del Peru*" (Moses, *Spanish Colonial Literature in South America*). — First eight leaves stained in places, old owner's inscription on the title, otherwise fine copy.



Zonca, Printing-office in the 17th cent., see nr. 47 (reduced).

47. ZONCA, Vittorio. *Novo theatro di macchine et edifici per varie et sicure operazioni*. 4 leaves, 115 pp. *With engraved title and 39 remarkable, fine copper-plates of a variety of machinery*. Folio. Half vellum. Padova, 1656. Frs. 95. —

Brunet V, 1539. Riccardi II, 669.

"A rare work on **machinery**, displaying the wonderful inventions of the author, including those for various mills, copperplate and printing presses, a smoke-jack for roasting, etc. Among the rest is a spinning-jenny, identical with the one patented over a century later in England, the honour of inventing which certainly belongs to the ingenious Italian, whose countrymen seem to have given themselves little trouble to claim justice for Zonca" (*Libri Cat.*). — Browne as usual. — See reproduction above.

Prices in Swiss Francs